

PROTECTION DEVICE FOR HIGH INTENSITY RADIATION SOURCES

Abstract

A protection device that avoids contact between a high intensity radiation source and particulate matter such as dust and debris generated by it. The protection device comprises a housing member lined with a reflective coating and in contact with a cooling unit, at least one radiation source, at least one bend in the housing device, and an opening. Any direct route from the opening to the radiation source is eliminated by the bend, reducing the possibility that particulates will contact the radiation source. This risk can be further diminished by the inclusion of at least one fluid shield generator, such as a fan. The protection device is particularly useful for protecting white light arc lamps, while in use.